

## Title (en)

Artificial Intervertebral Disc having a captured ball and socket joint

## Title (de)

Künstliche Bandscheibe mit eingeschlossener Kugel und Muffenverbindung

## Title (fr)

Disque intervertébral artificiel doté d'une articulation à rotule sphérique capturée

## Publication

**EP 2193765 A1 20100609 (EN)**

## Application

**EP 10153896 A 20030916**

## Priority

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## Abstract (en)

An artificial disc having a pair of baseplates (10, 30), for sealing against opposing vertebral bone surfaces, separated by a ball and socket joint that includes a ball (22) attached to baseplate (10). The ball is captured within a curvate socket (37) formed in a peak of a housing (31) attached to the other baseplate (30). The socket is formed by opposing curvate surfaces, one on the convex structure and one on the baseplate. The ball rotates and angulates in the socket. The ball and socket joint therefore permits the baseplates to rotate and angulate relative to one another. Rotation of the ball can be limited. The device can be axially compressive and can include wire mesh (14, 34) on the outer surfaces of the baseplates.

## IPC 8 full level

**A61F 2/44** (2006.01); **A61F 2/46** (2006.01); **A61F 2/00** (2006.01); **A61F 2/02** (2006.01); **A61F 2/30** (2006.01)

## CPC (source: EP US)

**A61F 2/442** (2013.01 - EP US); **A61F 2/4425** (2013.01 - EP US); **A61F 2/446** (2013.01 - EP US); **A61F 2/4611** (2013.01 - EP US); **A61F 2/4684** (2013.01 - EP US); **A61F 2/30742** (2013.01 - EP US); **A61F 2/30767** (2013.01 - EP US); **A61F 2002/30171** (2013.01 - EP US); **A61F 2002/30187** (2013.01 - EP US); **A61F 2002/302** (2013.01 - EP US); **A61F 2002/30331** (2013.01 - EP US); **A61F 2002/30365** (2013.01 - EP US); **A61F 2002/30378** (2013.01 - EP US); **A61F 2002/30433** (2013.01 - EP US); **A61F 2002/30451** (2013.01 - EP US); **A61F 2002/30492** (2013.01 - EP US); **A61F 2002/305** (2013.01 - EP US); **A61F 2002/30507** (2013.01 - EP US); **A61F 2002/30518** (2013.01 - EP US); **A61F 2002/30528** (2013.01 - EP US); **A61F 2002/30538** (2013.01 - EP US); **A61F 2002/30563** (2013.01 - EP US); **A61F 2002/30565** (2013.01 - EP US); **A61F 2002/30571** (2013.01 - EP US); **A61F 2002/30594** (2013.01 - EP US); **A61F 2002/30604** (2013.01 - EP US); **A61F 2002/30649** (2013.01 - EP US); **A61F 2002/30662** (2013.01 - EP US); **A61F 2002/30769** (2013.01 - EP US); **A61F 2002/30772** (2013.01 - EP US); **A61F 2002/30774** (2013.01 - EP US); **A61F 2002/30841** (2013.01 - EP US); **A61F 2002/30909** (2013.01 - EP US); **A61F 2002/3092** (2013.01 - EP US); **A61F 2002/30975** (2013.01 - EP US); **A61F 2002/443** (2013.01 - EP US); **A61F 2220/0025** (2013.01 - EP US); **A61F 2220/0033** (2013.01 - EP US); **A61F 2220/0041** (2013.01 - EP US); **A61F 2220/0058** (2013.01 - EP US); **A61F 2230/0034** (2013.01 - EP US); **A61F 2230/005** (2013.01 - EP US); **A61F 2230/0065** (2013.01 - EP US); **A61F 2250/0006** (2013.01 - EP US); **A61F 2310/00017** (2013.01 - EP US); **A61F 2310/00023** (2013.01 - EP US); **A61F 2310/00365** (2013.01 - EP US)

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- [A] US 2002111684 A1 20020815 - RALPH JAMES D [US], et al

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